CYCLOPS

DIY CAR ALARM SYSTEM

User and Installation Manual

Version 2.01

Please read this manual carefully before installing and turning on the Cyclops DIY Alarm System and store it in a safe place.

CYCLOPS DIY Alarm System

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Notes on safety and using this manual

For your safety, please observe the safety instructions and procedures indicated by the symbols below.

⚠	**Caution! Safety Instruction:** Failure to observe this instruction can cause material damage or personal injury and impair the function of the device.
⚡	**Caution! Electrical Safety Instruction:** Failure to observe this instruction can cause danger from electrical current or voltage resulting in personal injury.
ⓘ	**Advisory notice:** Supplementary information for operating this device
►	**Action:** This symbol indicates that action is required on your part. The required action is described step-by-step.
✓	**Observation:** This symbol describes the result of an action.

Intended Use

The Cyclops DIY Alarm System is an alarm system designed for operation in most standard passenger vehicle models under normal operating environments. It may not be suitable for use for certain commercial vehicles or in certain environmental conditions.

Components of the Cyclops DIY

Description	Quantity
Siren and Sensor Module	1
Pressure Sensor (optional)	1
Remote Controls	2
Operating Manual	1

Features

The Cyclops DIY Alarm System is a do it yourself alarm system that is designed for most passenger vehicles and aims to protect the vehicle and its contents from theft. The Cyclops DIY Alarm system consists of 2 main components and an optional low pressure sensor with the following features.

Please note depending you're your model purchased, components and features may different slightly from those shown.

Wireless Siren and Sensor Module

The Siren and Sensor module is the core module of the Cyclops DIY Alarm System. It is very easy to install requiring only 2 wires for power. The 3rd wire is an ignition wire that may be connected to the vehicle ignition system to prevent the siren from arming when the car is been driven. It also functions as a learn wire to program in new remotes to the Cyclops DIY Alarm System in the scenario when the supplied remotes are misplaced. Lastly, the shorter wire is the antenna for the system.

The module includes a siren as well as two in-built sensors:

- Milli-volt Sensor – This sensor constantly monitors the battery voltage of the car and is triggered by small voltage drops caused by the doors or boot being opened.
  *Note *The milli-volt sensor will only be active 40 seconds after being armed so when initially testing the system and say opening a door, ensure that you wait more than 40 seconds.*
- Shock Sensor - Alarm is triggered when the vehicle is bumped, disturbed or towed

The system is armed, disarmed as well as programmed by the Remote Controls. The module also includes the ability to be triggered by additional wireless sensors such as the Pressure Sensor module shown below.

Pressure Sensor Module (optional)

The pressure sensor module is one of the wireless sensors that can be used to trigger the alarm. This sensor monitors changes in air pressure within the vehicle and if a door or boot is opened, this should trigger the sensor.

▭ Please note that to work correctly, this sensor requires that windows, sunroof or any other vehicle openings are closed.

The sensor battery is charged by insertion in your vehicle auxiliary power plug and once charged can be removed if required and it will continue to function elsewhere in the vehicle as long as the battery remains charged.

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 Although pre-configured at time of manufacture, the sensor does have a sensitivity adjustment on the side which can be changed using a small Phillips-head screwdriver, should this be required.

Remote Controls

Your system will be supplied with one or more remote controls. The remote controls used for the Cyclops DIY Alarm System are designed to be code-hopping to ensure maximum security. Each Remote has 2 buttons. The features and use of these buttons is described in the following section.

Arm and Disarm

The large button showing lock and unlock symbols is used to arm and disarm the system. The siren will respond with two chirps when armed and a single chirp when disarmed.

Panic Mode

Holding the large button down for more than 3 seconds (when either armed or disarmed) will trigger the siren for 30 seconds. If the remote is pressed to cancel the siren, the unit will return to the disarmed state. If the alarm is not cancelled by the remote and times out, the Cyclops DIY Alarm System will return to the previous state (armed/disarmed).

Vehicle Locator

Holding the small button down for more than 3 seconds (when armed) will trigger the vehicle locator function. The siren will trigger a different repeating chirp sequence to aid in identifying the location of the parked vehicle.

Programming and Diagnostics

The Cyclops DIY Alarm System has a number of programming and diagnostic features which are selected via a combination of button presses. These functions are described in detail later in this manual.

Safety and Installation Instructions

Please observe the prescribed safety instructions and stipulations provided by your vehicle manufacturer and any service workshops.

Caution

The Manufacturer will not be held liable for claims for damage resulting from the following:
- Installation errors
- Damaged to the devices from mechanical influences and over voltage
- Alterations made to the device without the explicit permission of the Manufacturer
- Use for purposes other than those described in the operating manual

Warning

Inadequate or incorrect cable connections could result in short circuits which could have the following consequences:
- Cable fire
- Airbag triggering
- Damaged to vehicle electronic, electrical, control and signaling devices

Observation

Please observe the following instructions:
- Secure the parking brake and other aids installed in the vehicle in such a way that the vehicle cannot be moved inadvertently under any circumstances and cause injury.
- Secure and install any parts of the Cyclops DIY Alarm Systemin such a manner that they cannot become loose and cause damage to other parts in the vehicle or impair vehicle functions (steering, brakes, etc)
- Always follow the safety instructions of the vehicle manufacturer. Some work on certain vehicles may only be performed by qualified specialists.
- When making electrical connections, ensure that they are not kinked or twisted; they do not rub on edges and are not laid in sharp edged ducts without protection.
- Secure the cable against mechanical wear with cable binders or insulating tape.

If you disconnect the negative terminal of the vehicle battery, some data stored in volatile memory may be lost. The following are examples of some vehicle equipment which may be affected:

- Radio Code, On-board computer, Vehicle clock, Seat position

You will find instruction for these settings in their respective operating instructions.

Installing the Cyclops DIY Alarm System

Installing the Siren and Sensor Module

⚠️ Warning

To prevent the risk of short circuits, do not wear metallic objects such as rings, watches and the like when connecting the Cyclops DIY Alarm System to the battery. Ensure that you do not short the positive battery terminal to ground (such as the body of the car) via the installation tools.
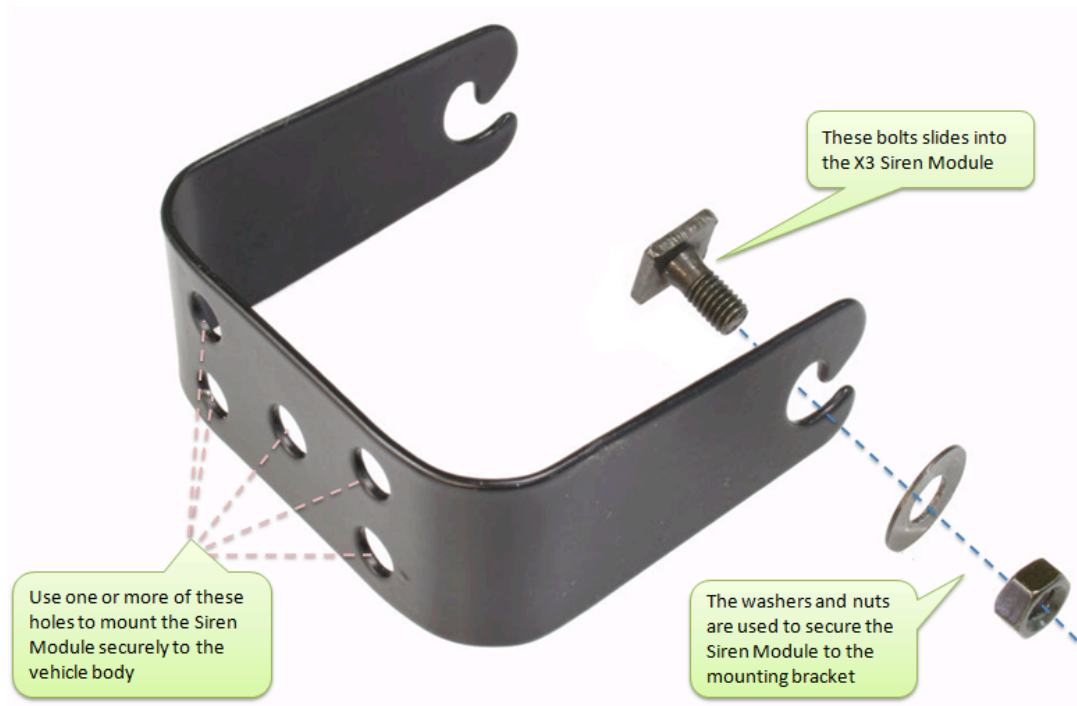
► Locate the vehicle battery and carefully remove the protective covers that are covering the positive and negative terminals.

CAUTION ⚠ 🔊

Warning: Sound Hazard – Sound level from siren speaker (>120dBA @ 1meter) may cause hearing damage. Do not operate siren without adequate hearing protection for you and anyone in the immediate vicinity.

► Secure the Siren and Sensor module mounting bracket to a strong point on the vehicle chassis using the screws and nuts provided as shown below:

These bolts slides into the X3 Siren Module

Use one or more of these holes to mount the Siren Module securely to the vehicle body

The washers and nuts are used to secure the Siren Module to the mounting bracket

► Install the Siren Module to the mounting bracket using the screws and nuts provided. The siren can be mounted at a number of different angles to suit your vehicle as shown in the images below. Wherever possible, it is recommended to mount the siren with the opening facing downwards, towards the ground as shown in the examples below.

► Loosen the nut on the battery negative terminal (black) and connect the Cyclops DIY Alarm System negative wire (black) to the battery negative terminal.

► Loosen the nut on the battery positive terminal (red) and connect the Cyclops DIY Alarm System positive wire (red) to the battery positive terminal.

Warning: The Siren and Sensor module will beep once when connected to the battery.

Programming Remote Controls and Pressure Sensors into the Alarm

Your Cyclops DIY Alarm System should come with the Remotes and Pressure sensor programmed into the siren module. If this is not the case for your product, please see the Troubleshooting section.

Installing the Low Pressure Sensor (optional sensor)

► Plug the Low Pressure Sensor Module into the vehicle auxiliary/lighter plug.

√ The Low Pressure Sensor will enter charging mode when power is supplied to the auxiliary plug. The red LED on the Low Pressure Sensor will remain on to indicate that the battery is charging.

► The sensitivity of the Low Pressure Sensor can be tuned by adjusting the Sensitivity Adjustment Screw.

Programming Mode

The Cyclops DIY Alarm System can be customized via the *Programming Mode*.

Programming mode is entered by holding both remote control buttons down for 4 seconds, after which the siren will chirp 4 times. Then the large button is pressed a number of times to enter a specific programming mode as shown in the table below. When pressing the remote to enter a specific programming mode, the presses should be done roughly 1 second apart.

# of remote presses	Description
3	Report Diagnostics
5	Adjust shock sensor sensitivity
7	Program new remote
9	Toggle shock sensor on/off
11	Toggle milli-volt detection on/off
13	Program low frequency sensor

Report Diagnostics (3)

► If your Cyclops DIY Alarm System is triggered and you would like to determine which sensor was the source, you can report Cyclops DIY Alarm System diagnostics by following these steps:

1. When disarmed, press and hold both buttons for 4 seconds.
2. The siren will chirp quickly.
3. Press the remote button **3** times (slowly).
4. For each press the siren will respond with a chirp.
5. After the 3rd press, wait 2 seconds.
6. The Cyclops DIY Alarm System will report the following diagnostics (by chirping a number of times) indicating by the number of chirps, the sensor that caused the most recent trigger as shown in the table below:-

Sensor	No. of Chirps
Shock	1
Milli volt	2
Pressure Module	3

Adjusting Shock Sensor Sensitivity (5)

► The Cyclops DIY Alarm System has 4 settings for Shock Sensor Sensitivity. You may want to adjust this if you find your shock sensor is too sensitive or not sensitive enough. There are a variety of factors that may affect this such as your vehicle size, the specific location in the vehicle that the Cyclops DIY Alarm System is installed and the environment in which your vehicle is used.

To adjust the sensitivity of the Shock Sensor – follow these steps:-

1. When disarmed, press and hold both buttons for 4 seconds.
2. The siren will chirp quickly.
3. Press the remote button **5** times (slowly).
4. For each press the siren will respond with a chirp.
5. After the 5th press, wait 2 seconds – the siren will chirp 4 times.
6. You can then select from 4 sensitivity levels by pressing the remote button between 1 and 3 times as shown in the table below:-

# Button Presses	Sensitivity	Siren responds with
1	High	1 Chirp
2	Medium	2 Chirps
3	Low	3 Chirps
4	Very Low	4 Chirps

7. Then wait 2 seconds and the Siren will respond with a number of chirps indicating that the sensitivity level has been successfully changed.

Programming a new remote (7)

► You can program a new remote into the Cyclops DIY Alarm System by following these steps:

1. When disarmed, press and hold both buttons for 4 seconds.
2. The siren will chirp quickly.
3. Press the remote button **7** times (slowly).
4. For each press the siren will respond with a chirp.
5. After the 7th press, wait 2 seconds – the siren will chirp 4 times.
6. You then have 2 seconds to press any button on the new remote.
7. The unit will chirp again 4 times (in a different tone) when learned, or upon timeout.
8. The unit can track a total of 5 remotes.

Toggle shock sensor on/off (9)

Depending on your vehicle and environment, it may be desirable to disable the shock sensor.

► The shock sensor can be toggled on/off by following these steps:

1. When disarmed, press and hold both buttons for 4 seconds.
2. The siren will chirp quickly.
3. Press the remote button **9** times (slowly).
4. For each press the siren will respond with a chirp.
5. After the 9th press, wait 2 seconds.
6. The siren will chirp to indicate the new status of the shock sensor

Shock Sensor	No. of Chirps
Off	1
On	2

Toggle milli volt sensor on/off (11)

► The milli volt sensor can be toggled on/off by following these steps:

1. When disarmed, press and hold both buttons for 4 seconds.
2. The siren will chirp quickly.
3. Press the remote button **11** times (slowly).
4. For each press the siren will respond with a chirp.
5. After the 11th press, wait 2 seconds.
6. The siren will chirp to indicate the new status of the milli-volt sensor

Sensor	No. of Chirps
Off	1
On	2

Programming Low Frequency Sensor (13)

► The low frequency sensor can be programmed into the Cyclops DIY Alarm System by following these steps:

1. When disarmed, press and hold both buttons for 4 seconds.
2. The siren will chirp quickly.
3. Press the remote button **13** times (slowly).
4. For each press the siren will respond with a chirp.
5. After the 13th press, wait 2 seconds – the siren will chirp 4 times.
6. You then have 2 seconds to program in the Low Pressure Sensor by turning it on. You can observe the red LED blinking when turned on.
7. The unit will chirp again 4 times (in a different tone) when learned, or upon timeout.

► To verify, turn on the low pressure sensor and arm the Cyclops DIY. Trigger the low pressure sensor by blowing into it and observe that the LED flashes when triggered and the Cyclops DIY Alarm System sounds. To stop the alarm, simply disarm the system via the remote.

Learn Mode (used when the remotes supplied are misplaced)

► The learn wire is used to program in new remotes to the Cyclops DIY Alarm System in the scenario when both remotes are misplaced. Replacement remotes can be purchased for Cyclops DIY Car Alarm System via the My Cyclops web site, www.mycyclops.com.au.

1. Ensure that the Cyclops DIY Alarm System is powered.
2. Tap the ignition wire onto the positive terminal of the battery 5 times (1 second on followed by 1 second off) and hold the ignition wire on the positive terminal on the 5th tap.
3. The Cyclops DIY Alarm System will enter into learn mode and will chirp 3 high tones and 3 low tones.
4. Remove the ignition wire from the positive terminal.
5. Program the replacement remote into the Cyclops DIY Alarm System by pressing any of the buttons on the remote control.
6. The Cyclops DIY Alarm system will respond with a beep if it has successfully learnt the new remote.

7. To verify, you can press the lock/unlock button on the newly programmed remote and you should observe the following:

   Armed   2 chirps
   Disarmed   1 chirp

8. Following the Programming New Remote Steps to program in additional remotes.

Troubleshooting

Anti-nuisance feature

When armed, the Cyclops DIY Alarm System is designed to sound the siren for 30 seconds when triggered. The Cyclops DIY Alarm System is designed with an anti-nuisance feature wherein the system will disable a trigger circuit and not sound the alarm if that particular circuit has been triggered more than 3 times since it was armed. Upon disarmed, the trigger count for that circuit is reset.